**ASSIGNMENT-3**

**HAZARDOUS AREA MONITORING IN INDUSTRIAL PLANT POWERED BY IOT**

**PYTHON CODE FOR BLINKING LED USING RASPBERRY PI:**

import time

import RPi.GPIO as GPIO ## Import GPIO library

GPIO.setmode(GPIO.BOARD) ## Use board pin numbering

GPIO.setup(11, GPIO.OUT) ## Setup GPIO Pin 11 to OUT

while True:

GPIO.output(11,True) ## Turn on Led

time.sleep(1) ## Wait for one second

GPIO.output(11,False) ## Turn off Led

time.sleep(1) ## Wait for one second

**PYTHON CODE FOR TRAFFIC LIGHTS USING RASPBERRY PI:**

from gpiozero import Button, TrafficLights, Buzzer

from time import sleep

buzzer = Buzzer(15)

button = Button(21)

lights = TrafficLights(25, 8, 7)

while True:

           button.wait\_for\_press()

           buzzer.on()

           light.green.on()

           sleep(1)

           lights.amber.on()

           sleep(1)

           lights.red.on()

           sleep(1)

           lights.off()

           buzzer.off()